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Project title: *Diurnal variations and forcing of precipitation systems in the North American Monsoon system*

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Figures:

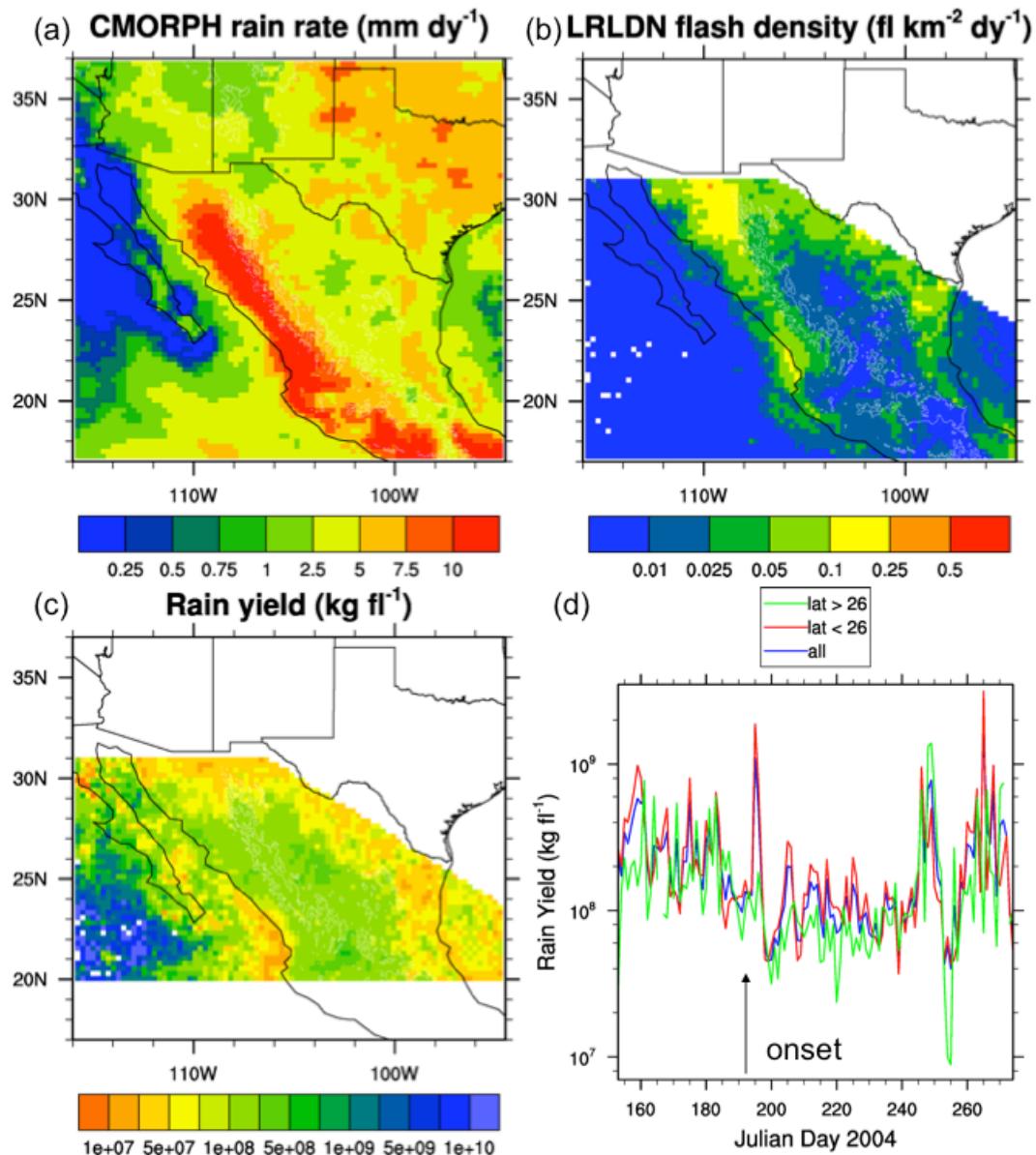


Fig. 1: July-August 2004 (a) CMORPH mean rain rate (mm dy^{-1}), (b) Long Range Lightning Detection Network (LRLDN) corrected flash density ($\text{fl km}^{-2} \text{ dy}^{-1}$), (c) rain yield (kg rain/flash), and (d) time series of rain yield over the entire SMO (blue line), SMO north of 26° latitude (green line), and over the SMO south of SMO (red line).

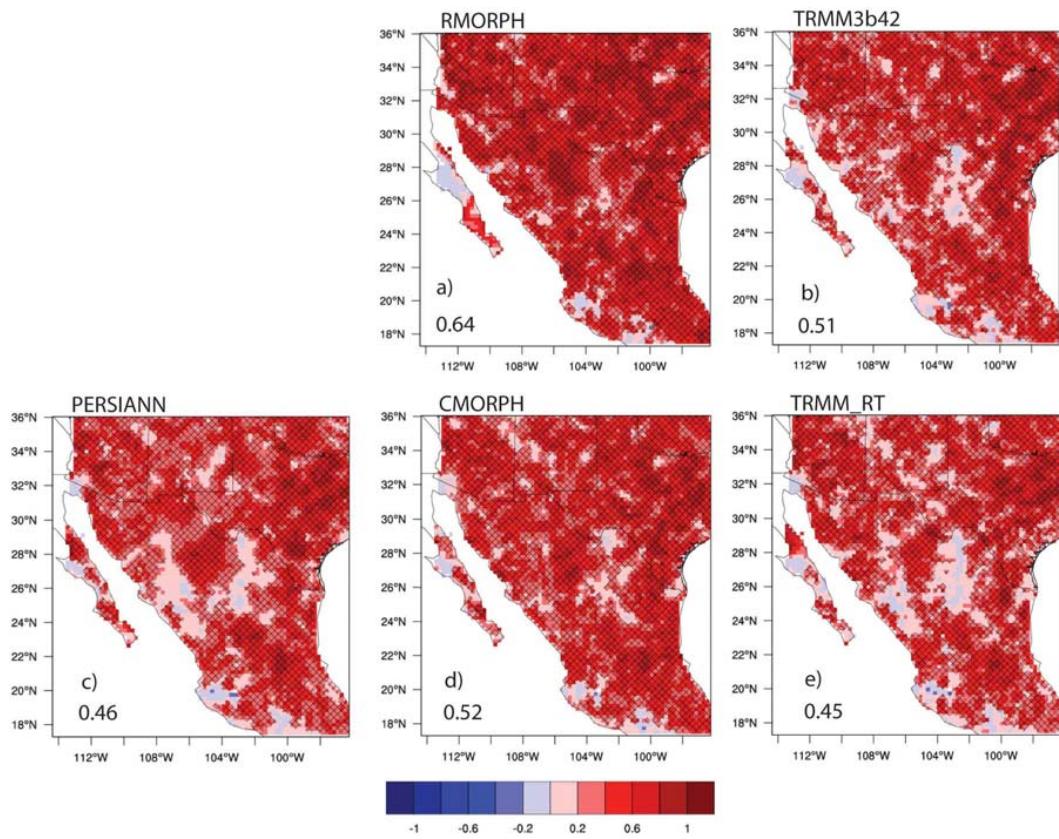


Fig. 2: Cross-correlation maps between interpolated EOL gauge composite data and (a) RMORPH, (b) TRMM 3B42v6, (c) PERSIANN, (d) CMORPH, and (e) TRMM 3B42RT. Cross-hatching designates regions where cross-correlation values are statistically significant at the 95% level (>0.22). Inset values are pattern correlation values for each correlation map. (From Gochis et al., submitted to *Atmosphera*)